

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 648E (BALTIMORE ANNAPOLIS BOULEVARD) AND MD 176 (DORSEY ROAD)/8TH AVENUE IN ANNE ARUNDEL COUNTY, MARYLAND. MODIFICATIONS INCLUDE THE INSTALLATION OF 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEADS AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTONS FOR SOUTH LEG OF MD 648E. MD 648E IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 648E APPROACHES OPERATING CONCURRENTLY AND THE MD 176/8TH AVENUE APPROACHES OPERATING CONCURRENTLY. EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR NORTHBOUND AND SOUTHBOUND MD 648E. EXCLUSIVE LEFT-TURN PHASING IS PROVIDED FOR EASTBOUND MD 176 AND WESTBOUND 8TH AVENUE. INTERSECTION LIGHTING IS PROVIDED ON THE NORTHEAST CORNER AND SOUTHEAST CORNER. INTERCONNECT RUNS TO THE NORTH TO THE SOUTH ENTRANCE TO CROMWELL FIELDS SHOPPING CENTER. AN EXISTING AUDIBLE PUSHBUTTON ACTUATED PEDESTRIAN PHASE IS PROVIDED ACROSS THE WEST LEG OF MD 176. A NEW AUDIBLE PUSHBUTTON ACTUATED PEDESTRIAN PHASE WILL BE PROVIDED ACROSS THE SOUTH LEG OF MD 648E.

APS MESSAGE FOR CROSSING MD 648E (BALTIMORE ANNAPOLIS BOULEVARD) FROM MD 176 (DORSEY ROAD):

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS BALTIMORE ANNAPOLIS AT DORSEY/8TH, WAIT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

APS MESSAGE FOR CROSSING MD 648E (BALTIMORE ANNAPOLIS BOULEVARD) FROM 8TH AVENUE:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS BALTIMORE ANNAPOLIS AT 8TH/DORSEY, WAIT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTROLLER REQUIREMENTS

THE EXISTING NEMA SIZE '6' BASE MOUNTED CABINET AND EIGHT-PHASE CONTROLLER AND ALL ASSOCIATED EQUIPMENT WILL CONTINUE TO BE USED.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA:

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9570	2	SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN - 2 EACH R10-3(1) (9"x15") "BALT ANNAP BLVD"

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
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ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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MR. ED RODENHIZER
CHIEF, SIGNAL SHOP SECTION
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MR. MIKE STOCKER
SUPPLY OFFICE IV (SIGNAL SHOP WAREHOUSE)
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MR. MIKE HUBER
DISTRICT UTILITY ENGINEER
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MS. CORREN JOHNSON
CHIEF, TRAFFIC OPERATIONS DIVISION
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MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS SECTION
PHONE: (410) 787-7670

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
2002	1	CY	TEST PIT EXCAVATION
5005	250	LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
8001	2	EA	FURNISH AND INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8002	1	EA	FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE - ANY SIZE
8003	2	EA	FURNISH AND INSTALL 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8005	1	EA	REMOVE AND DISPOSE PER ASSIGNMENT
8008	30	LF	FURNISH AND INSTALL UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8012	40	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8015	2	SF	INSTALL GROUND MOUNTED SIGN
8017	10	LF	1 INCH DIAMETER RIGID STEEL CONDUIT, SCHEDULE 40
8020	600	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8021	600	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8022	725	LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8023	75	LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

EQUIPMENT LIST "C"

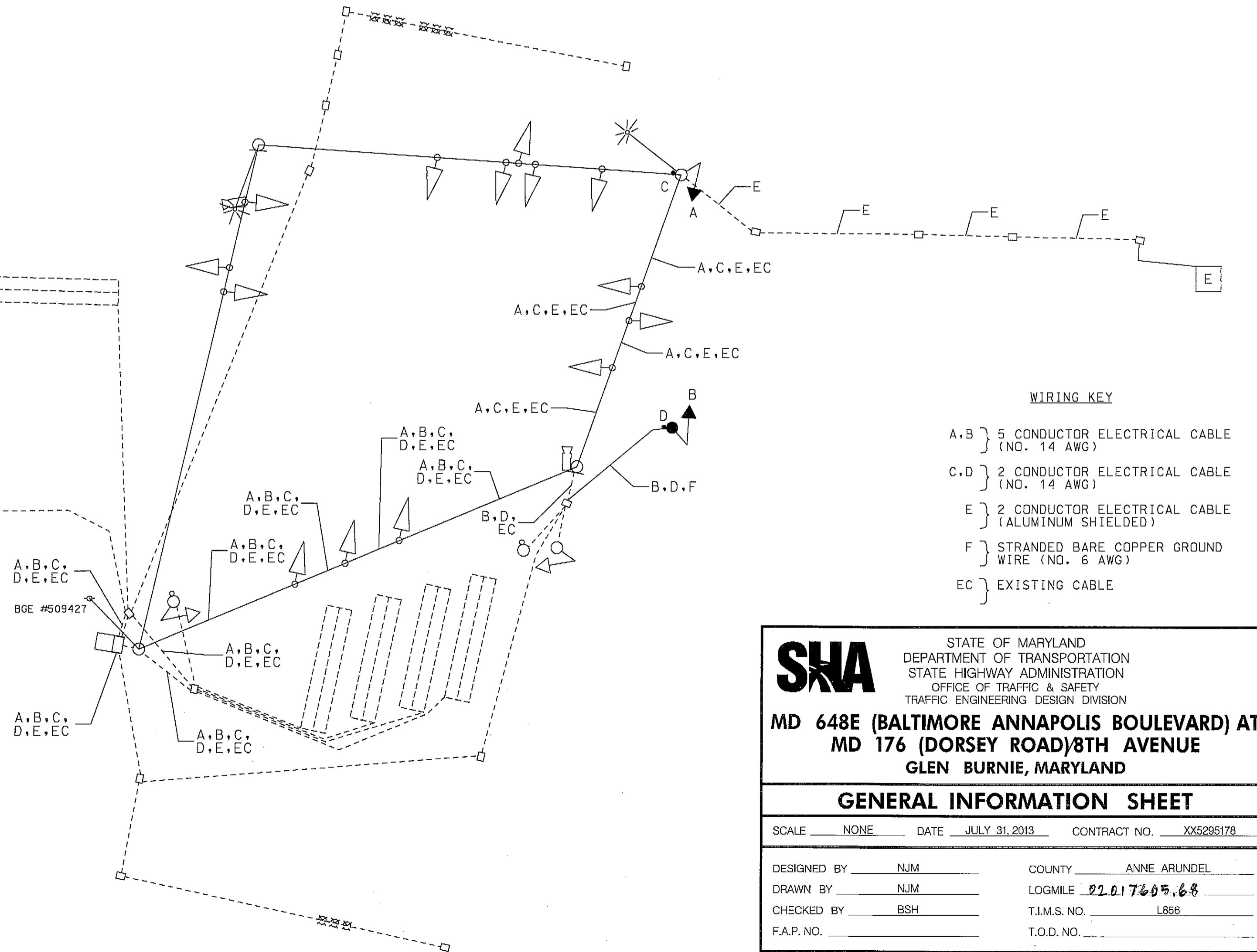
C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:

NONE.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 + 5	←G-/R	←G-/R	R	←G-/R	←G-/R	R	←R	←R	R	R/-G	←R	←R	R	R	DW	DW	DW	DW
1 + 5 CHANGE	1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5, OR PHASE 2 + 6																	
PHASE 1 + 6	←G-/G	←G-/G	G	R	R	R	←R	←R	R	R/-G	←R	←R	R	R	DW	DW	DW	DW
1 + 6 CHANGE	←Y-/Y	←Y-/Y	Y	R	R	R	←R	←R	R	R/-Y	←R	←R	R	R	DW	DW	DW	DW
PHASE 2 + 5	R	R	R	←G-/G	←G-/G	G	←R	←R	R	R	←R	←R	R	R	W	W	DW	DW
5 CHANGE	R	R	R	←Y-/G	←Y-/G	G	←R	←R	R	R	←R	←R	R	R	W	W	DW	DW
PHASE 2 + 6	G	G	G	G	G	G	←R	←R	R	R	←R	←R	R	R	W	W	DW	DW
PED CLEARANCE	G	G	G	G	G	G	←R	←R	R	R	←R	←R	R	R	FL/DW	FL/DW	DW	DW
2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	←R	←R	R	R	←R	←R	R	R	DW	DW	DW	DW
PHASE 3 + 7	R	R	R	R	R	R/-G	←G	←G	R	R	←G	←G	R	R	DW	DW	DW	DW
3 + 7 CHANGE	3 + 7 MAY CHANGE TO PHASE 4 + 7, PHASE 3 + 8, OR PHASE 4 + 8																	
PHASE 4 + 7	R	R	R	R	R	R/-G	←G	←G	G	G	←R	←R	R	R	DW	DW	DW	DW
4 + 7 CHANGE	R	R	R	R	R	R/-Y	←Y	←Y	Y	Y	←R	←R	R	R	DW	DW	DW	DW
PHASE 3 + 8	R	R	R	R	R	R	←R	←R	R	R	←G	←G	G	G	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	←R	←R	R	R	←Y	←Y	G	G	DW	DW	DW	DW
PHASE 4 + 8	R	R	R	R	R	R	←R	←R	G	G	←R	←R	G	G	DW	DW	DW	DW
4 + 8 CHANGE	R	R	R	R	R	R	←R	←R	Y	Y	←R	←R	Y	Y	DW	DW	DW	DW
PHASE 4 + 8 ALT	R	R	R	R	R	R	←R	←R	G	G	←R	←R	G	G	DW	DW	W	W
PED CLEARANCE	R	R	R	R	R	R	←R	←R	G	G	←R	←R	G	G	DW	DW	FL/DW	FL/DW
4 + 8 ALT CHANGE	R	R	R	R	R	R	←R	←R	Y	Y	←R	←R	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING DIAGRAM



**McCormick
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SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
**MD 648E (BALTIMORE ANNAPOLIS BOULEVARD) AT
MD 176 (DORSEY ROAD)/8TH AVENUE
GLEN BURNIE, MARYLAND**

GENERAL INFORMATION SHEET

SCALE	NONE	DATE	JULY 31, 2013	CONTRACT NO.	XX5295178
DESIGNED BY	NJM	COUNTY	ANNE ARUNDEL		
DRAWN BY	NJM	LOGMILE	22.017605.68		
CHECKED BY	BSH	T.I.M.S. NO.	L866		
F.A.P. NO.		T.O.D. NO.			
T.S. NO.	816J-GI	SG-02 OF SG-04		SHEET NO.	OF